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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/649,536	08/26/2003	Andrew Jeremiah Burns	2003PI2748US	5435
7590 Siemens Corporation Intellectual Property Department 170 Wood Avenue South Iselin, NJ 08830	06/18/2007		EXAMINER HEINRICH, SAMUEL M	
			ART UNIT 1725	PAPER NUMBER
			MAIL DATE 06/18/2007	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)
	10/649,536	BURNS ET AL.
	Examiner Samuel M. Heinrich	Art Unit 1725

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 26 March 2007.
- 2a) This action is **FINAL**. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-6,8-11,13-17,36 and 37 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-6,8-11,13-17,36 and 37 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 26 August 2003 is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____. | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| | 6) <input type="checkbox"/> Other: _____. |

DETAILED ACTION***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-6, 8-11, 13-17, 36, and 37 rejected under 35 U.S.C. 103(a) as being unpatentable over USPN 5,951,892 to Wolfa et al in view of US20030209859A1 to Young et al and in view of USPN 6,443,813 to Strom et al and in view of USPN 6,676,878 to O'Brien et al. Wolfa et al describe (Abstract) texturing deposited ceramic material by "utilizing a laser to cut a pattern into the surface". The laser cut depth is 0.01 to 0.1 inch (254 microns to 2.54 mm). Young et al and Strom et al and O'Brien et al all describe multiple passes of a laser and all describe multiple laser energy parameters associated with the passes. The use of multiple passes and multiple laser

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energy parameters in a laser cutting process would have been obvious at the time applicant's invention was made to a person having ordinary skill in the art because they provide variability to processes of manufacture in laser processing of ceramics. The particular claimed size of the gap would have been obvious as a change in shape for some intended use. The dependent claims modify sizes, shapes, spacings, multiple shapes, laser delivery, etc., would have been obvious at the time applicant's invention was made to a person having ordinary skill in the art depending on the particular layered work piece.

Claims 16, 17, and 36 are rejected under 35 U.S.C. 103(a) as being unpatentable over USPN 5,951,892 to Wolfa et al in view of US20030209859A1 to Young et al and in view of USPN 6,443,813 to Strom et al and in view of USPN 6,676,878 to O'Brien et al as applied to claim 1 above, and further in view of US 20030101587A1 to Rigney et al and in view of US20040266615A1 to Watson et al. Both Rigney et al (repairing a damaged engraved layer) and Watson et al (forming multiple layers for multiple channels) describe surface deposit of ceramic material, etching the surface, and again depositing and laser grooving the surface in repair of buildup manufacture. The plural coating would have been obvious at the time applicant's invention was made to a person having ordinary skill in the art depending on intended use.

Response to Arguments

Applicant's arguments filed March 26, 2007 have been fully considered but they are not persuasive. Applicant argues that none of the references suggest use of energy

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parameters which include "changing of such parameters from a first pass to a second pass". This argument is not convincing. O-Brien et al describe (column 12, lines 27-41) "skilled persons will appreciate that it is possible to change laser parameters during any given pass". Applicant argues that multiple layers of grooved material are not disclosed in the prior art. This argument is not convincing. Rigney et al discloses forming an engraved layer as a repair process of a previously engraved layer.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

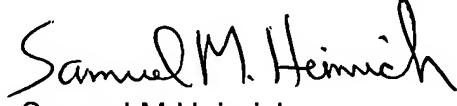
A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Samuel M. Heinrich whose telephone number is 571-272-1175. The examiner can normally be reached on M-F.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, J. Johnson can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.


Samuel M. Heinrich
Primary Examiner
Art Unit 1725

SMH